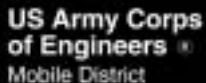


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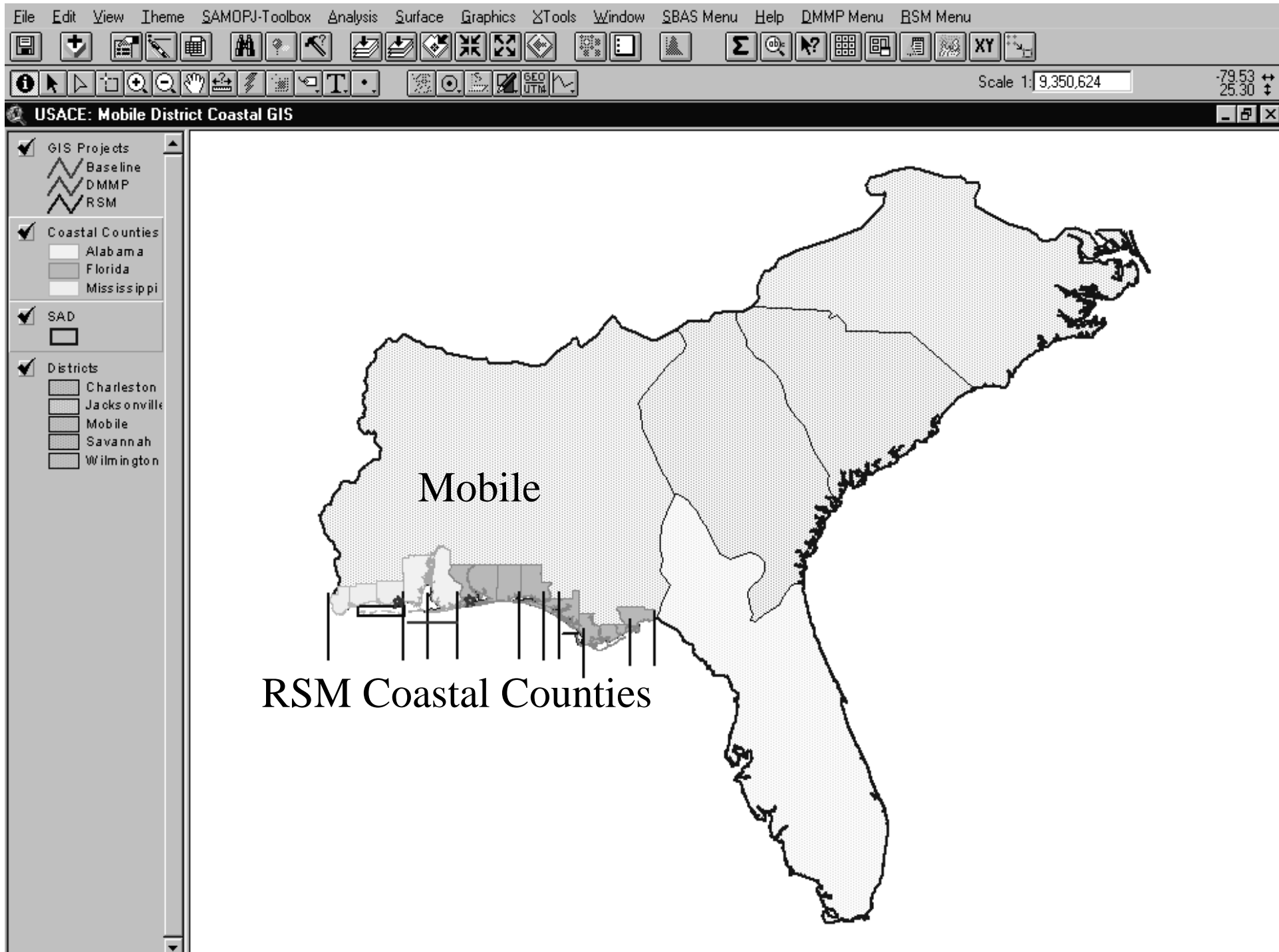
# Regional Sediment Management

」 」 」 」 」 」 」 」 」 」 」 」 」 」 」 」

- Regional Sediment Management (RSM) refers to the effective utilization of littoral, estuarine, and riverine sediment resources in an environ-mentally effective and economical manner.



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of Engineers ®  
Mobile District



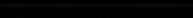
# CESAM's RSM GIS

- Provides RSM scientists and engineers an interface to hydrographic, topographic, photogrammetric, and historic dredge material data for the RSM region, as well as custom applications designed to facilitate engineering analyses.

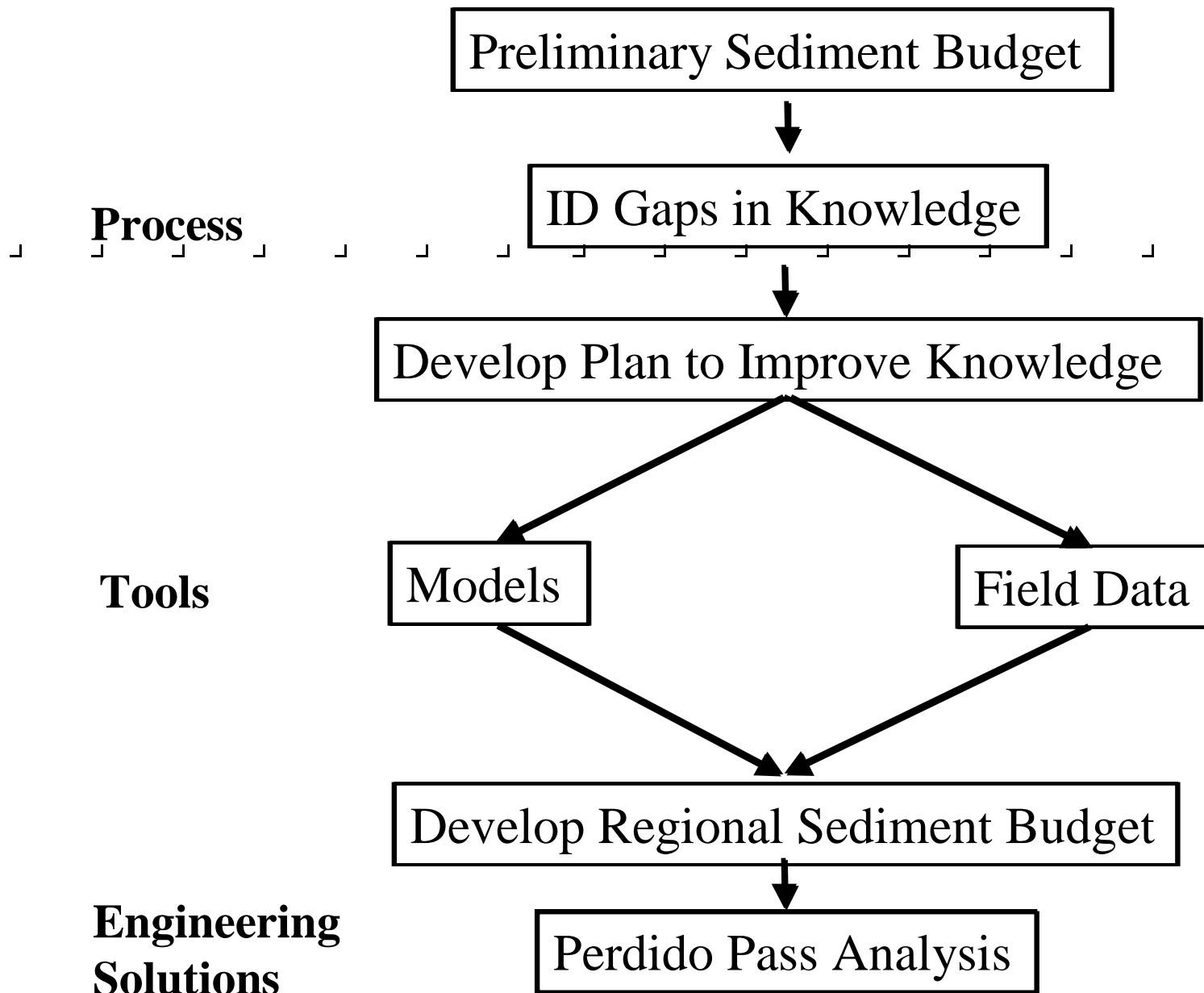


US Army Corps  
of Engineers ®  
Mobile District

[illegible]

- 
- US Army Corps  
of Engineers** ®  
Mobile District





US Army Corps  
of Engineers  
Mobile District

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# Data Management

- Geospatial
- Reports
- Historic Information
- Model Results
- Time Series

# Dredging Management

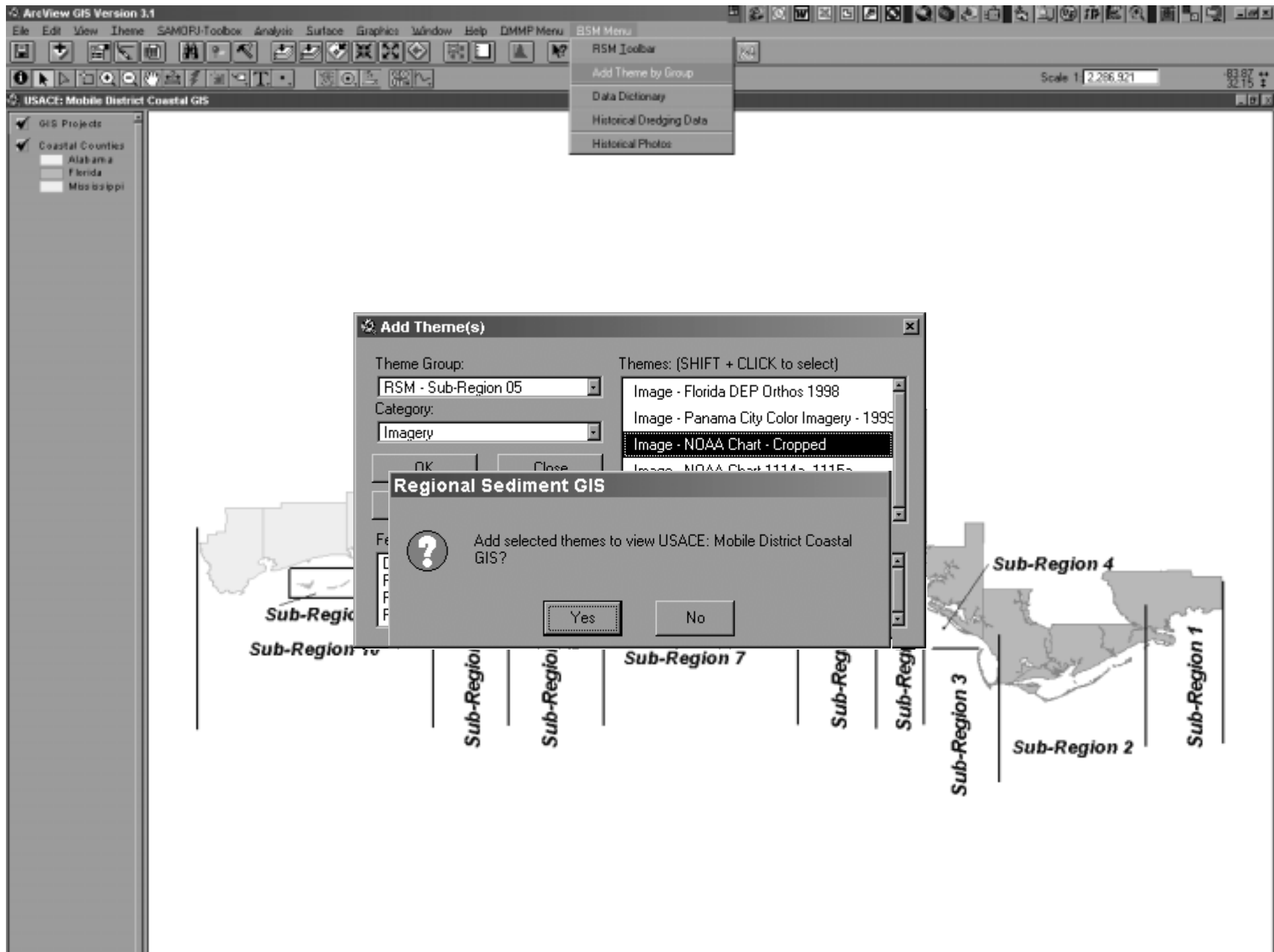
# Sediment Budget Analysis

# Environmental

# Impact Evaluation



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of Engineers** ®  
Mobile District







Scale 1: 84,969

USACE: Mobile District Coastal GIS

☒ Image - NOAA Ch...

☐ GIS Projects

☒ Baseline

☒ DMMP

☒ RSM

☒ Coastal Counties

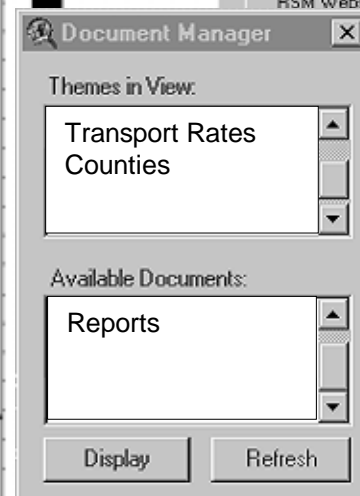
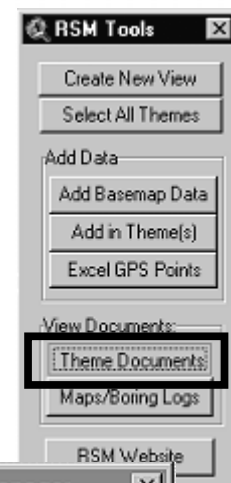
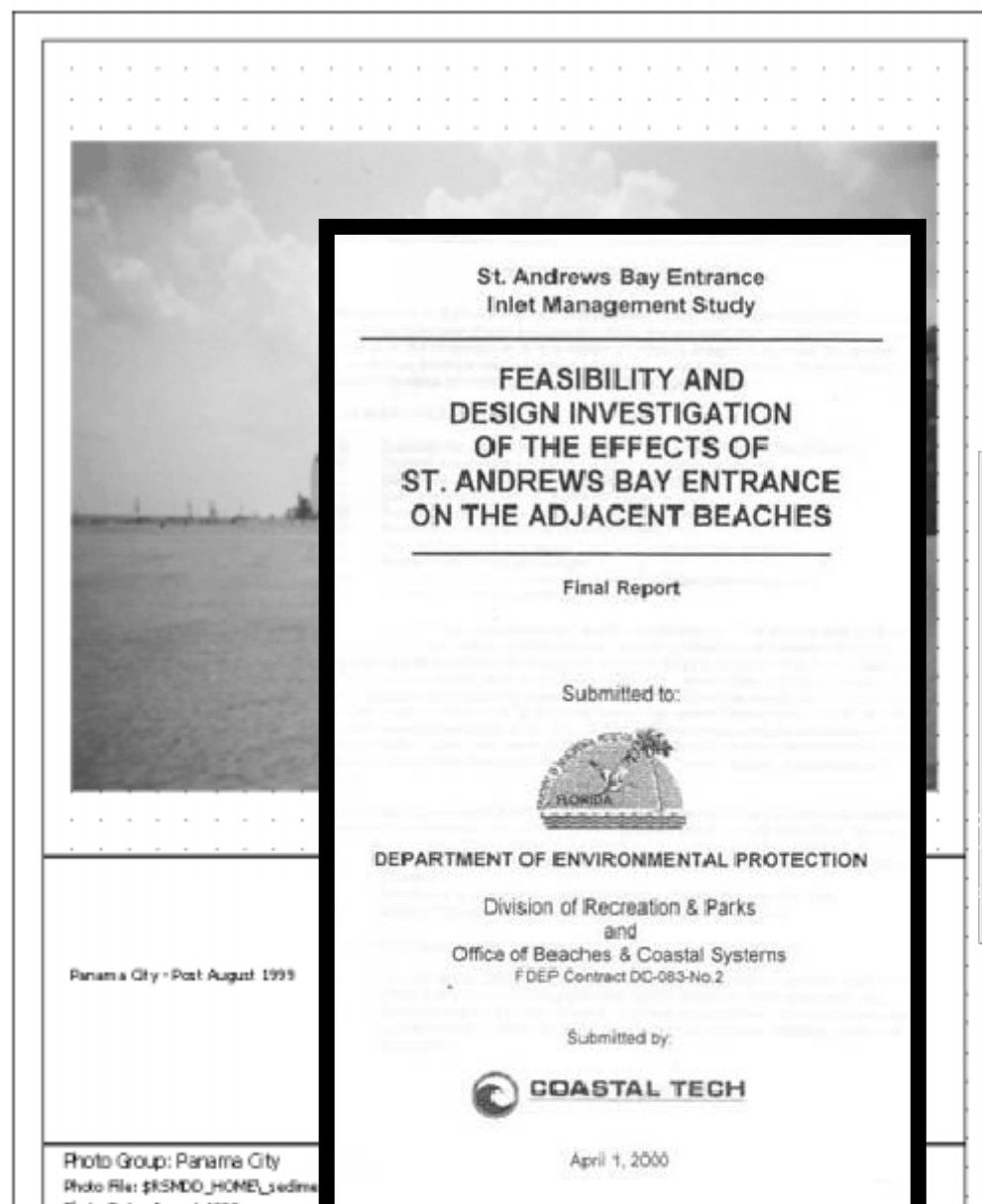
☒ Alabama

☒ Florida

☒ Mississippi

☐ Image - NOAA Ch...





# Modeling Approach

- **ADCIRC** - Water-Levels and Circulation
- **WIS** - Wave Hindcast
- **STWAVE** - Wave Transformation
- **GENESIS** - Shoreline Change/Transport
- **SMS** - Surface Modeling System



US Army Corps  
of Engineers®  
Mobile District

## Mobile District Coastal GIS Data Dictionary

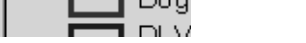
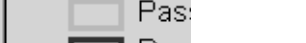
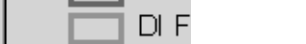
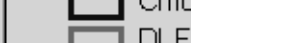
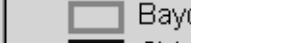
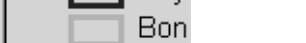
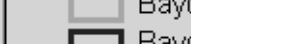
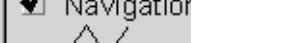
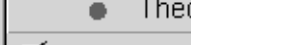
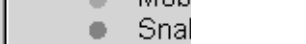
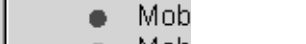
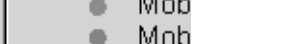
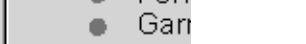
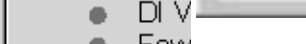
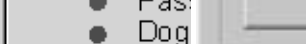
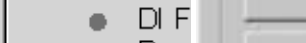
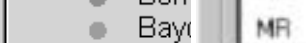
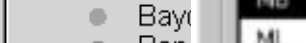
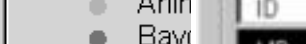
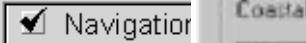
Group Name	Common Name	File Name	Theme Type	Feature Class	File Path
RSM - Regional Area <b>Description:</b>	Alabama Navigation Channels Alabama federal navigation channels maintained by the MDO.	rsm_dd_al_channels.shp	shape	point	\$RSMDD_HOME\sediment_dd\feature\shape\regional\
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RSM - Regional Area <b>Description:</b>	Alabama Navigation Channels Stationing Cross sections and centerlines of Alabama federal navigation channels maintained by the MDO.	rsm_dd_al_channels_stationing.shp	shape	line	\$RSMDD_HOME\sediment_dd\feature\shape\regional\
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RSM - Regional Area <b>Description:</b>	Coastal Points of Interest Coastal points of interest.	rsm_dd_coastal_pts.shp	shape	point	\$RSMDD_HOME\sediment_dd\feature\shape\regional\
RSM - Regional Area <b>Description:</b>	COE - SAD Boundaries Legend for SAD boundary theme in Regional view.	rsm_dd_sad.shp	shape	polygon	\$RSMDD_HOME\sediment_dd\feature\shape\regional\
RSM - Regional Area <b>Description:</b>	Congressional Districts Congressional Districts	rsm_dd_congress.shp	shape	polygon	\$RSMDD_HOME\sediment_dd\feature\shape\regional\
RSM - Regional Area <b>Description:</b>	Cropped Quad Sheet - Bay Minette 30 x 60 Minute Quad Sheet - 1:100,000 - 1978 (cropped)	crop_f30087e1_utm.sid	georaster	image	\$RSMDD_HOME\sediment_dd\georast\quadsheets\
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[illegible]

- Dredging History
- Laboratory Reports
- Placement Design

- # Impact Evaluation





## Dredging Report - Historical Record - Mobile District Coastal GIS

Project Key: MB001

Printed: 13-May-2002

### Project Data:

<u>Project</u>	<u>Start Station Location</u>	<u>Disposal Area</u>
Mobile Bar Channel	1865+00	Gulf Open Water
<u>Dredge Name</u>	<u>End Station Location</u>	<u>Contractor</u>
Padre Island	1915+00	NATCO

### Contract Data:

<u>Advertising Num</u>	<u>Contract End Date</u>	<u>Net Cost Per CYD</u>
DACW01-96-B-0106	20-Aug-1997	
<u>Contract Num</u>	<u>Contract Begin Date</u>	<u>Gross Cost Per CYD</u>
DACW01-97-C-0003	01-Jul-1997	\$1.45
<u>Drawing File Num</u>	<u>Contractor Earnings Mob Demob</u>	<u>Unit Price</u>
	\$7,600.00	
<u>Disposal Area File Num</u>	<u>Contractor Earnings DA Activities</u>	<u>% Non-Pay Yardage</u>
<u>Contract Period Days</u>	<u>Contractor Earnings Dredging</u>	
300	\$1,345,713.11	
<u>Contract Type</u>	<u>Total Contractor Earnings</u>	
Rental	\$1,353,313.11	

### Dredging Statistics:

<u>Diesel Horsepower</u>	<u>Pipeline Size In</u>	<u>Gross Hourly Digging CYDS</u>	<u>Avg Daily Digging Hours</u>
		466.43	19
<u>Cubic Yards Gross</u>	<u>Net CYDS Per FT</u>	<u>Total Operating Time Hours</u>	<u>Total Dredge Advance Ft</u>
546,383		2,496	



Scale 187,878

88.36  
90.35

USACE: Mobile District Coastal GIS

☒ Boring Logs

☐ GIS Projects

☐ Baseline

☐ CMMP

☐ RSM

☒ Coastal Point

☒ Institutions

☒ Transportation

☒ Recreation

☒ Highway Ex

☒ Railroads

☒ Retail Center

☒ Parks

☒ Major Lakes

☒ Municipalities

☒ RSM Zone 9

☒ Coastal County

☒ Alabama

☒ Florida

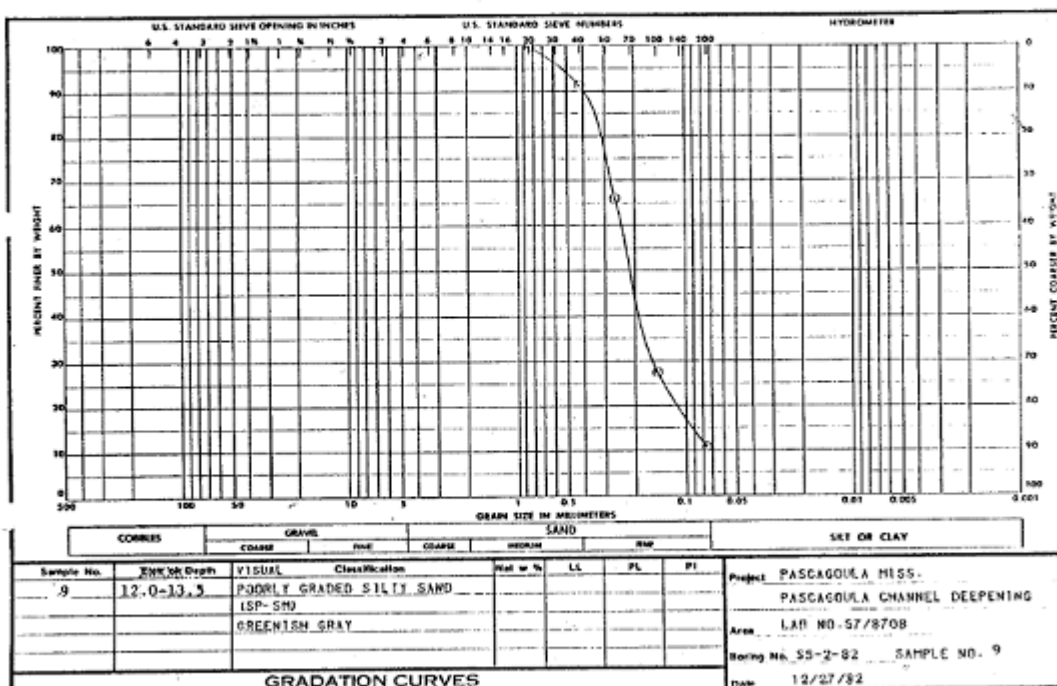
☒ Mississippi

BORING LOG	SOUTH ATLANTIC DIVISION	MOBILE DISTRICT	CORPS OF ENGINEERS	SHEET 1 OF 2 SHEETS
PROJECT AND LOCATION PASCAGOULA CHANNEL DEEPENING				
COORDINATES N 141.851 E 100.224		DATE & TIME OF TEST SP-17-8000; 100 LB. HAMMER TOP OF DRILL E 3.18 SP-17-8000		
DRILLING METHOD MOBILE DISTRICT				
HOLE NO. SS-2-82				
NAME OF GALLER, INSPECTOR J. DETLOFF; B. BRYANT				
DIRECTION OF HOLE CONVEYOR CONVEYOR DES. FROM HOLE				
THICKNESS OF OVERBURDEN		TOTAL NO. OF CORN		
DEPTH DRILLED INTO ROCK		GROUND WATER FIRST		
TOTAL DEPTH OF HOLE 31.5' STATIC GROUND WATER				
DEPTH IN FEET	W/C %	SYM	CLASSIFICATION (DESCR)	
1.5			BROWN & GREEN SILTY CLAYEY S	
3.0			BROWN & GREEN SILTY SAND (SM)	
4.5			TAN PR. GRD. S (SP-SM)	
6.0			GREENISH GRAY W/ TR. OF SHELL	
7.5			TAN PR. GRD. S (SP-SM)	
9.0			W/ TR. OF SHELL	
10.5			GREENISH GRAY (SM) W/ TR. OF	
12.0			GREENISH GRAY (SM) W/ TR. OF	
13.5			SILTY SAND (SP-SM)	
15.0			GREENISH GRAY (SM) W/ TR. OF	
16.5			SILTY SAND (SP-SM)	
18.0			GREENISH GRAY (SM) W/ TR. OF	
19.5			SILTY SAND (SP-SM)	
21.0			GREENISH GRAY (SM) W/ TR. OF	
22.5			SILTY SAND (SP-SM)	
24.0			GREENISH GRAY (SM) W/ TR. OF	
25.5			SILTY SAND (SP-SM)	
27.0			GREENISH GRAY (SM) W/ TR. OF	
28.5			SILTY SAND (SP-SM)	
30.0			GREENISH GRAY (SM) W/ TR. OF	
31.5			SILTY SAND (SP-SM)	
REMARKS CONT				
FORM 927 DEC 82				

 DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY  
 CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

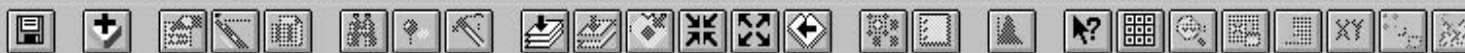
W.O. No. 5351

Req. No. 10-83-FAM



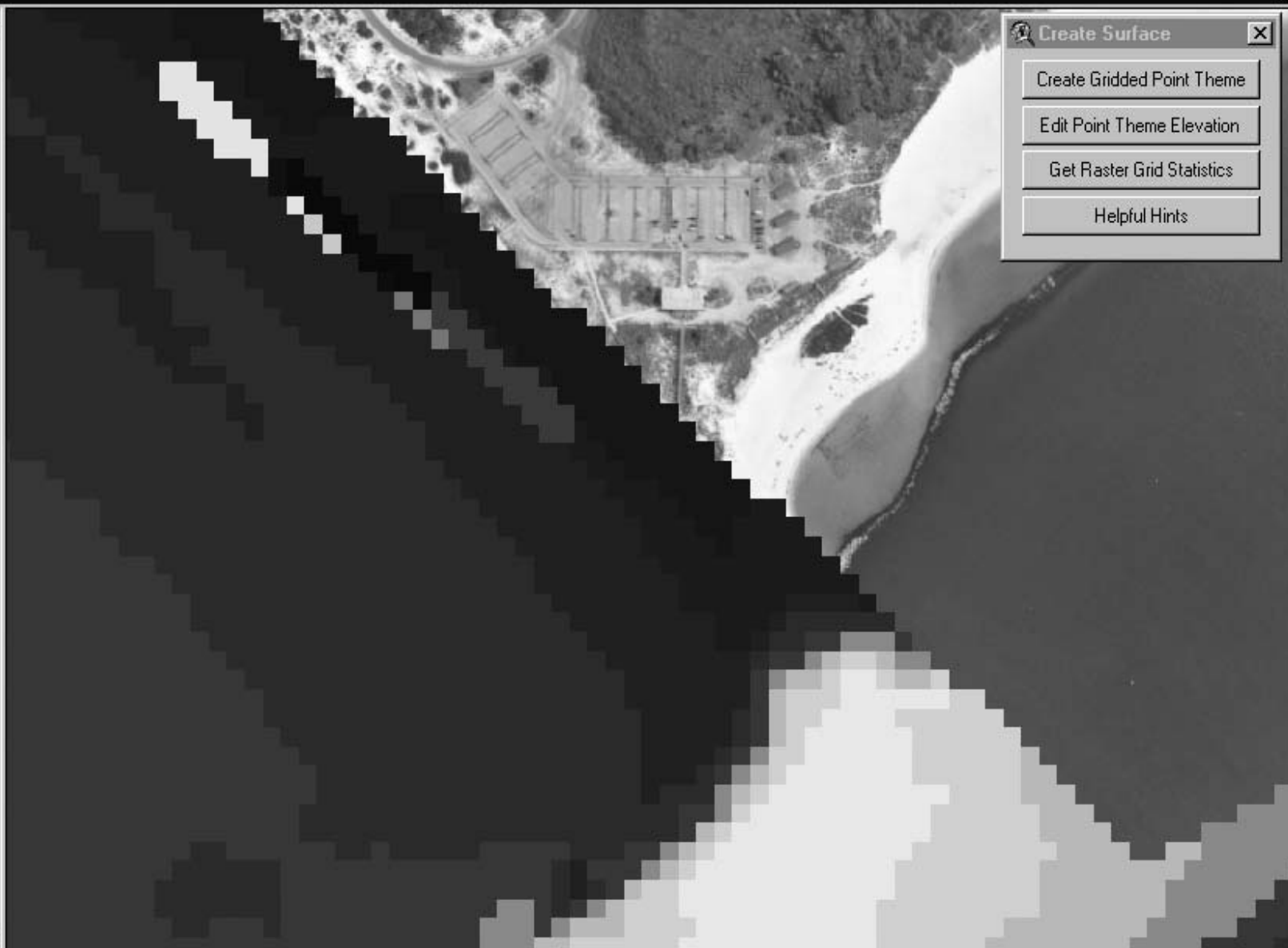
EMC FORM 2087

A3-6



Scale 1: 4,959

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  - 11.111 - 12.22
  - 12.222 - 13.33
  - 13.333 - 14.44
  - 14.444 - 15.55
  - 15.556 - 16.66
  - 16.667 - 17.77
  - 17.778 - 18.88
  - 18.889 - 20
  - No Data
- ☒ Grd00905
- 61.459 - -52.
  - 52.396 - -43.
  - 43.332 - -34.
  - 34.269 - -25.
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- ☒ Pc\_mosaic\_dd.sid





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## Data Management

## Management

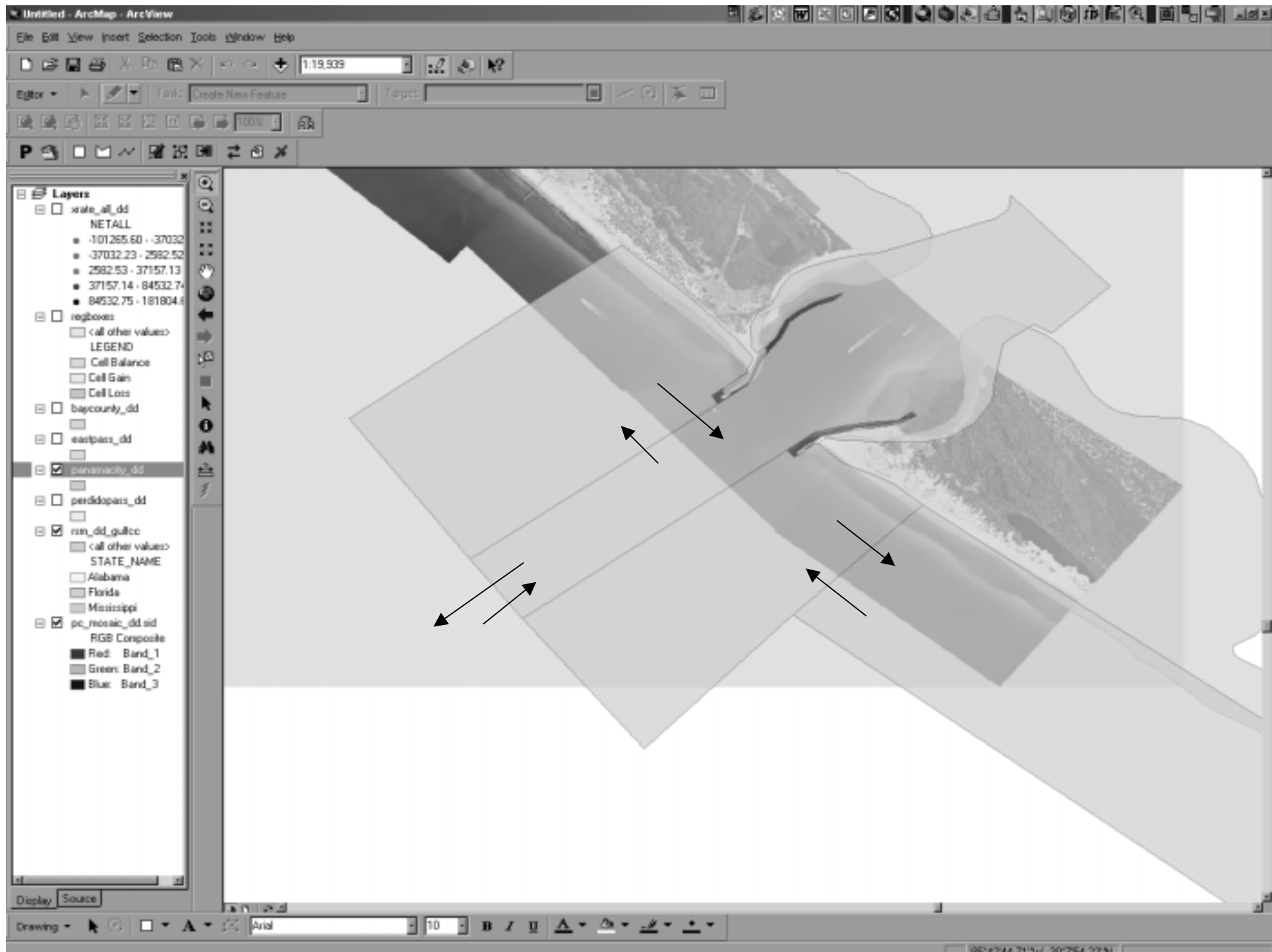
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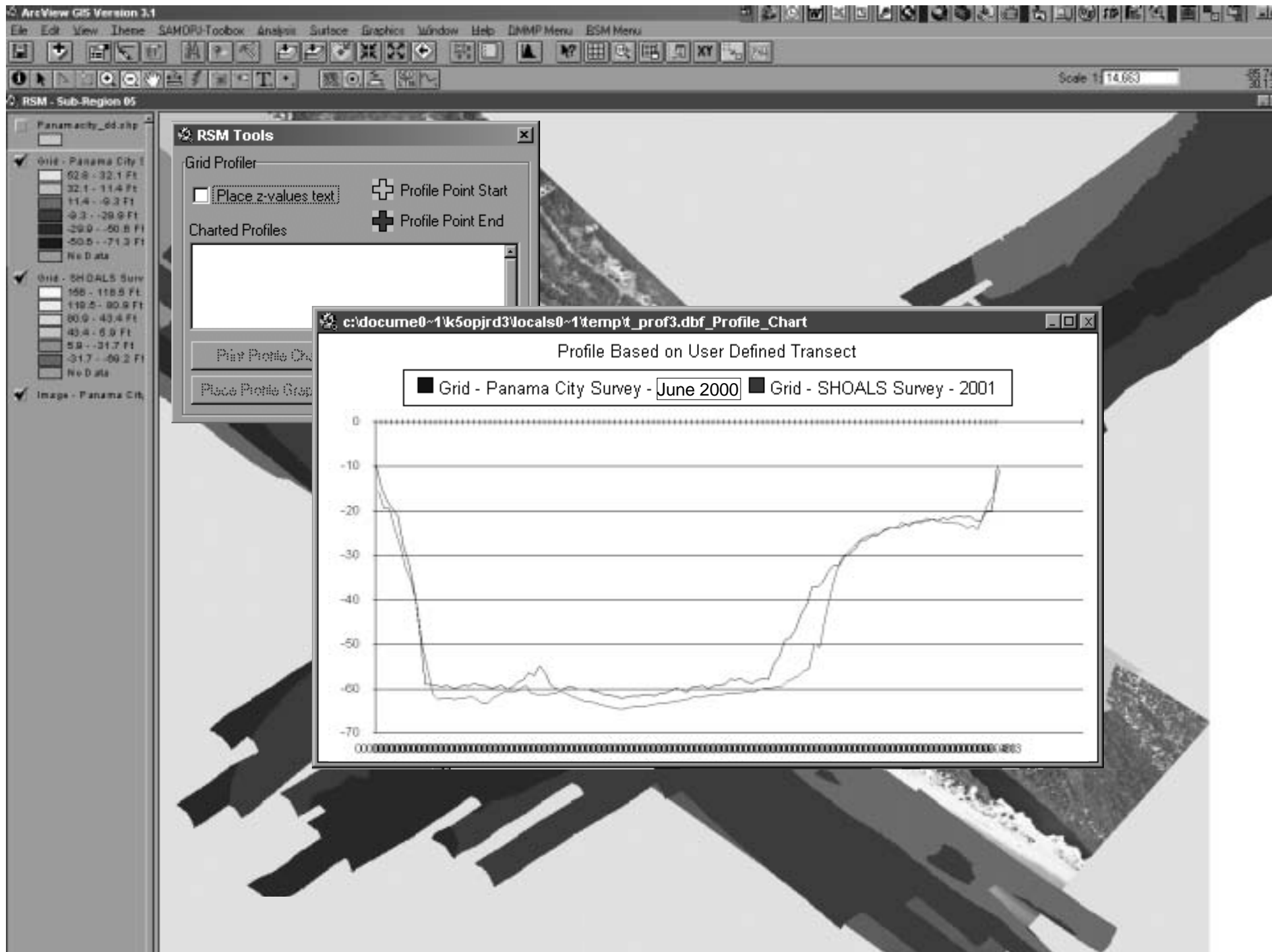
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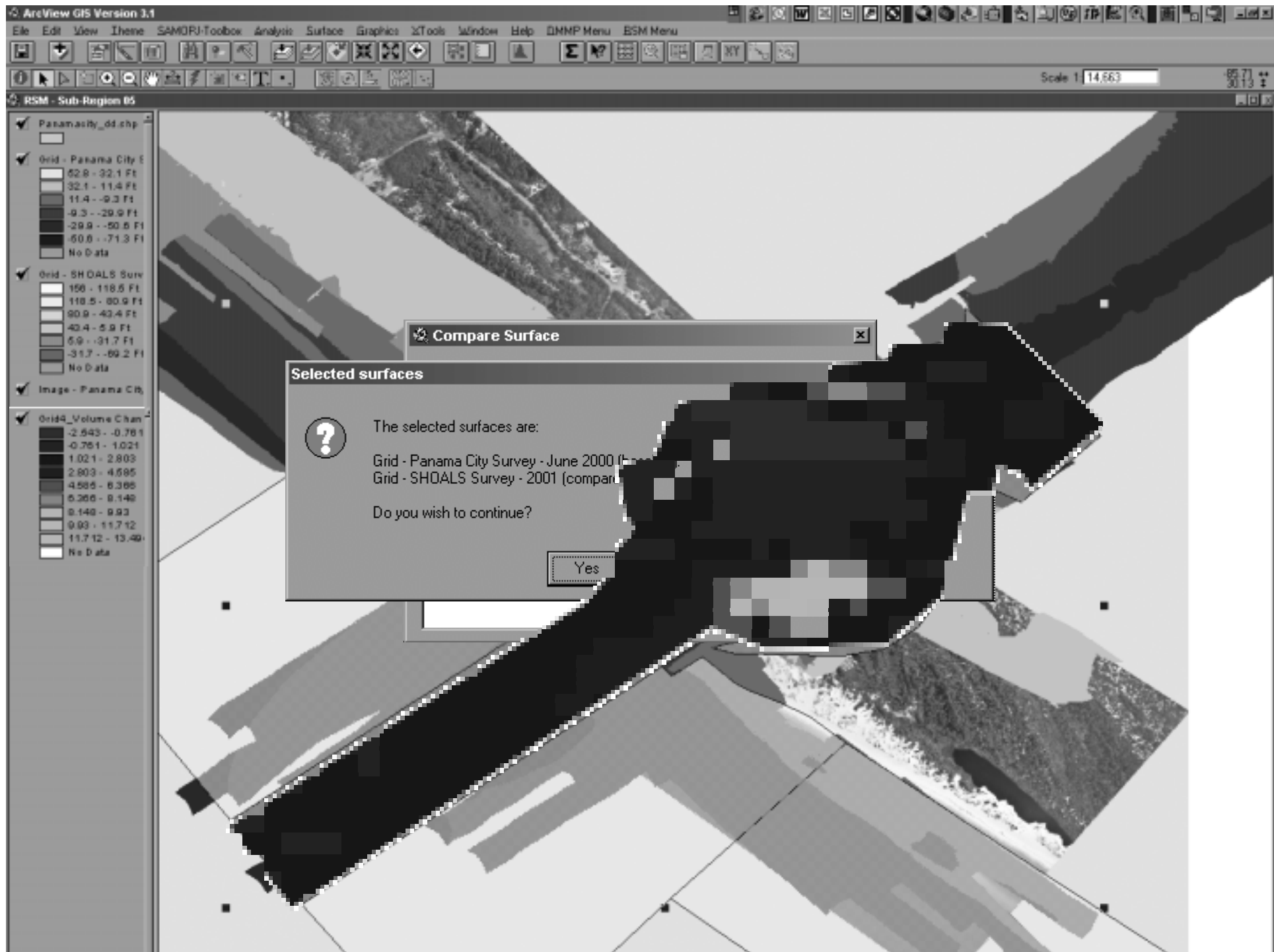
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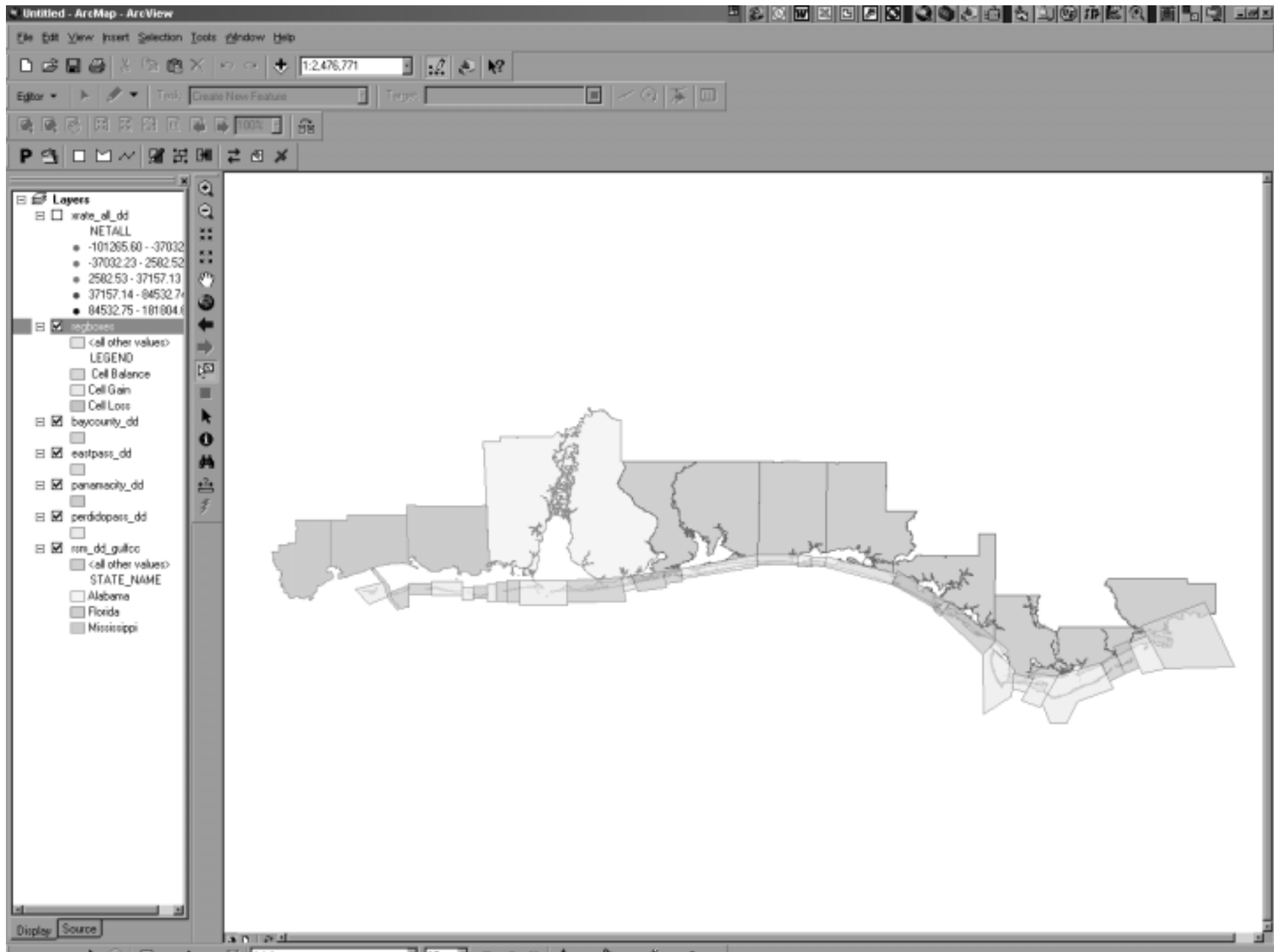
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# Regional Sediment Management GIS

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Data Management

Dredge Management

Sediment Budget Analysis

Impact Evaluation

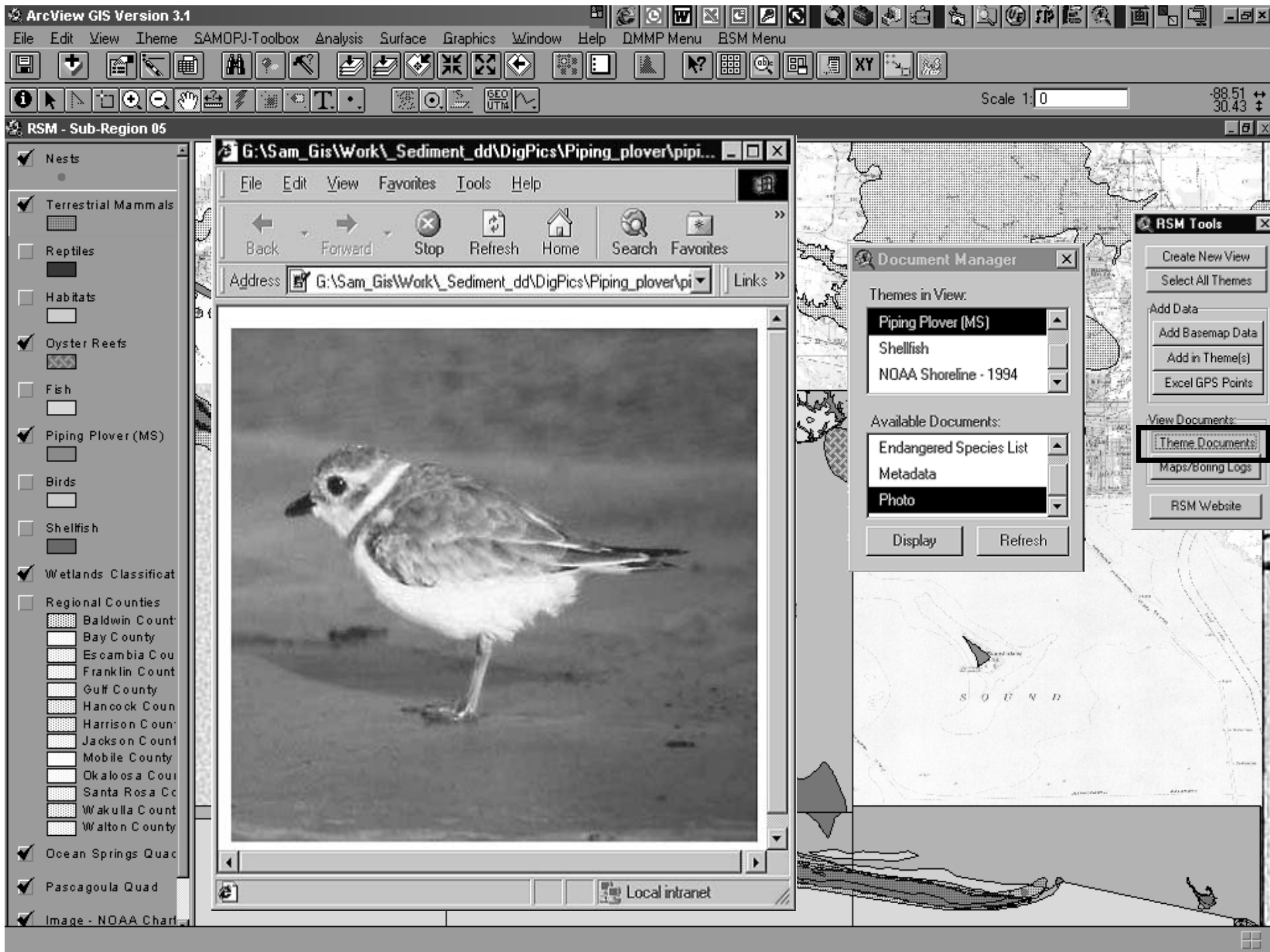
Environmental

- Inventory
- Change Analysis
- Permitting
- Water Quality



US Army Corps  
of Engineers  
Mobile District





[illegible]

# Data Management

Management

Budget Analysis

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## Impact Evaluation

- DMMP
- Shore Protection
- Navigation



# Partnering

- Leveraging – DMS, HyPAS, SHOALS Toolbox, DMSMART, others
- RSM GIS Technical Working Group
- Internet Map Server (IMS)



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- Activites
- Coastal Terms
- Meeting Info
- Program Info
- Members
- Participants
- Project Maps
- TWG
- Sub-Committees
- Sub-Regions
- Contact Us

In the past, the US Army Corps of Engineers (USACE) has focused on managing sand at coastal projects on a project-by-project basis. This approach to sand management may not adequately consider the impact of individual projects on down drift projects. To address this issue, the USACE has initiated efforts to assess the benefits of managing sediment resources as a regional scale resource rather than a localized project resource. The concept of Regional Sediment Management (RSM) is a result of the 67th meeting of the Coastal Engineering Research Board (CERB) held in May 1998. [\(more\)](#)





## RSM Technical Working Group

Members of the RSM GIS TWG include all August 30, 2001 workshop participants. Please contact Lynn Hardegree if you do not wish to participate in the TWG, or if you need to add members from your district.

### HOT TOPICS

[personnel](#) | [hardware/software](#) | [CHETN](#) | [next meeting](#)

### GDT DATA

- Geographic Data Technology (GDT) Data is "generic GIS data". Basically, GDT has simplified the steps of creating shapefiles from U.S. Census Bureau's TIGER data. For GDT shapefiles covering your district, contact Nancy Blyler at [nancy.j.blyler@hq02.usace.army.mil](mailto:nancy.j.blyler@hq02.usace.army.mil).

### OBTAINING GIS PERSONNEL

- If you are interested in full-time contractors working in-house, contact your Information Management branch and inquire about the personal services contract.
- If you are interested in co-op students, check with local Colleges or Universities. GIS is taught out of Geography Departments at both the undergraduate and graduate levels. Co-ops can be either parallel (they go to school and work at the same time) or they can be alternating (one semester of work followed by one semester of school). Parallel co-ops are part-time and alternating co-ops can be either full or part-time. If you need help locating nearby Geography Departments, please contact Lynn or Rose. Rose has connections with West Chester University which can supply co-ops to both NAP and NAN.

### GIS HARDWARE/SOFTWARE

- For GIS software and hardware specs, check out the Resources section.

Recommended GIS Computer Specs now available!





## Spatial Data Branch *online*

US Army Corps of Engineers, Mobile District

[Home](#) [Map Room](#) [Data](#) [Services](#) [Projects](#) [User Groups](#)

### What's New

- ▶ [Award Winning IMS Site](#)
- ▶ [Metadata Server](#)
- ▶ [GIS Support Site](#)

### GIS Information

- ▶ [What is GIS?](#)
- ▶ [What We Do](#)
- ▶ [GIS Presentations](#)

### OP-J-GIS News

- ▶ [ESRI Conference](#)
- ▶ [Meeting Jack Dangermond](#)
- ▶ [CADD/GIS Conference](#)



"As a young man, my fondest dream was to become a geographer. However, while working in the customs office I thought deeply about the matter and concluded that it was far too difficult a subject. With some reluctance, I then turned to physics as a substitute."  
-Albert Einstein

The Spatial Data Branch, Operations Division, Mobile District is composed of engineers, physical scientists, GIS and remote sensing specialists, hydrographers, and CADD technicians that provide a broad, integrated, team-oriented capability for spatial data collection, processing, analysis and GIS/IMS development.

[What's New](#) [The Team](#) [Support](#) [Contact Us](#)

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# Available Tools



Zoom to Scale

## Named Coastal Features:

Avonlea Point  
Bass Island  
Bass Hole Cove  
Bay Channel  
Bay Point  
Bayou Chico

## Legal Disclaimer



Map created by DP-1

Width of map: 15134 FEET

## Query/Selection Results - Microsoft Internet Explorer

### Bathymetry 01007 - Nov 1995

Rec	EASTING	NORTHING	ELEVATION
1	1794028.18000	11027115.84000	-9.00000
2	1794023.73000	11027161.01000	-9.40000
3	1794033.40000	11027111.66000	-8.50000

Map datum: UTM Feet, NAD83, Zone 10

Internet Explorer user  
use CTRL + F5 to refresh

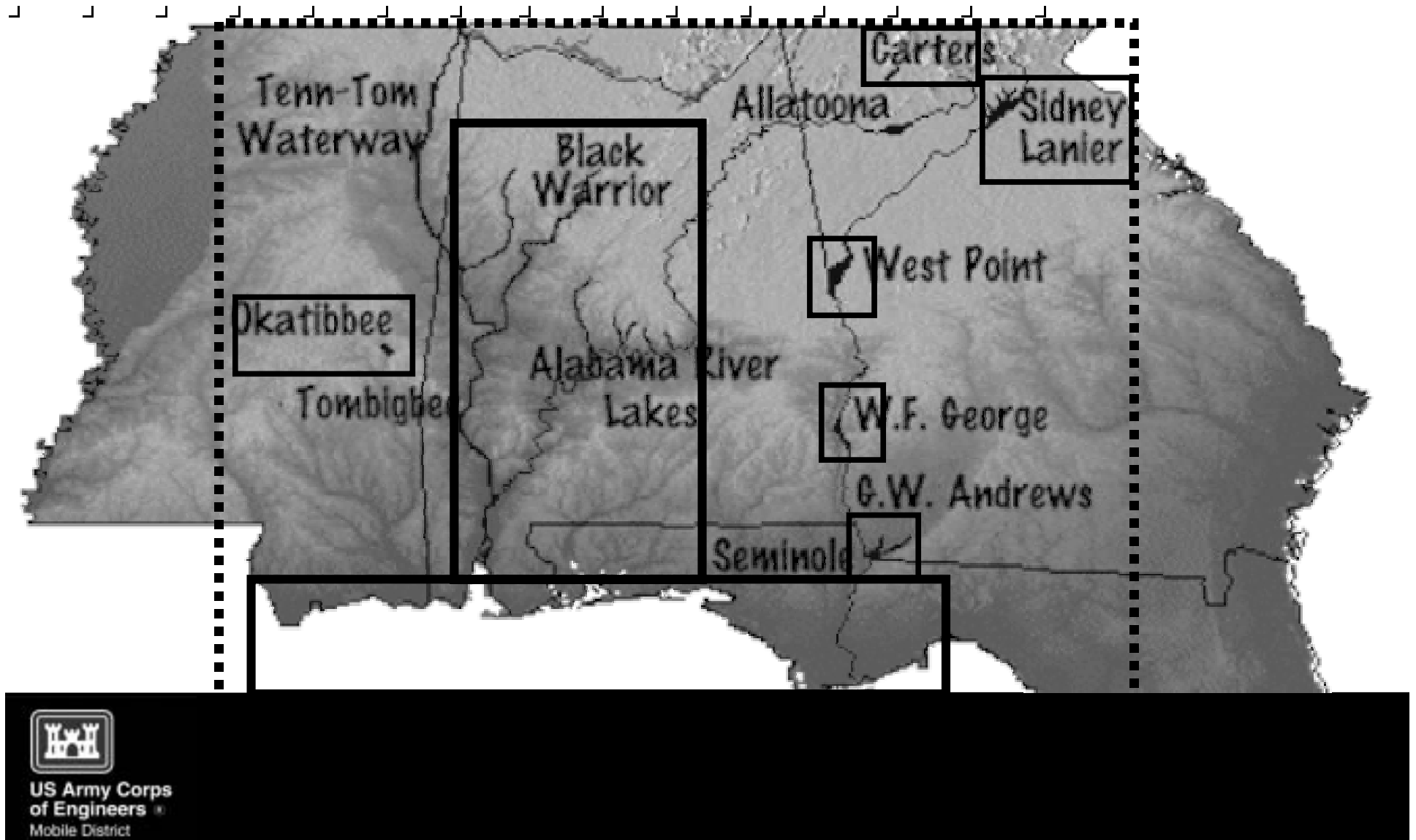
## Layer Properties

Refresh

Visible	Active	Label	
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Identity

# CESAM's Enterprise GIS





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# RSM Implementation Factors

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**Goal:** maximize beneficial use of sediments, minimize environmental impacts, optimize expenditures

Technology + Data + Tools + Management =  
Implementation

Must integrate into management practice



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